

Auto-Learn

LS300-120 PLUS A/L, A/S & LSI

Electronic Line Leak Detection System

EBW

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Evaluator: Jetronix Engr. Lab. - 06/01/91

System Description: The **EBW** Automatic Line Leak Detection system consists of a main logic control unit which is interfaced with the **Auto Stik** ATG console and the model **LS-300** pressure transducer located in the pipeline. The system uses a microprocessor with an algorithm based on time and line pressure to determine if a leak is present. Three gph leak tests are conducted every 45 minutes. In the event that a leak is detected by the system, the pump is activated and the line is repressurized. After 3 successive fails, the alarm is activated and the pump is shut down. Leak tests for 0.2 gph are automatically initiated after the pump has been still for 3 hours; 0.1 gph leak tests are initiated after a still time of 6 hours. If the system detects a leak, the same process occurs as in the 3.0 gph tests. Models that do not include the **A/L** series are only certified at 3 gph. This **EBW** system was previously owned by **Compo Miller**. You may still see this brand name.

Certification: 3, 0.2, & 0.1 gph

Pipe Capacity: 163 gal

Test Period: 3.0 gph - 10 minutes
0.2 gph - 25 minutes
0.1 gph - 34 minutes

Revised 12/29/98

LS300 PLUS A/L LSI Wireless

SIGNALING CODES FOR LAMPS

LEAK DETECTION MODE

	HI	LO	TEST	ALARM	HORN	CONDITIONS
A	●	⊗	●	●		3 GPH TEST IN PROGRESS PRESSURE WITHIN LIMITS
B	●	⊗	☀	●		PRECISION TEST IN PROG PRESSURE WITHIN LIMITS
C	●	●	●	☀	🔊	LEAK ALARM FAILED 3 GPH TEST
D	☀	●	●	☀	🔊	LEAK ALARM PRESSURE WITHIN LIMITS INSUFFICIENT PRESSURE TO CONDUCT TEST
E	●	☀	●	☀	🔊	LEAK ALARM PIPELINE FAILED TO CATCH PRESSURE
F	⊗	⊗	☒	⊗		0.2 GPH PRECISION TEST PASSED (0.1 GPH TEST PASSED <u>2 FLASHES</u>)
G	⊗	⊗	⊗	☒		0.2 GPH PRECISION TEST FAILED (0.1 GPH TEST FAILED <u>2 FLASHES</u>)
H	☒	●	⊗	⊗		WAITING TO TEST AGAIN LAST TEST FAILED
I	☒	●	⊗	⊗		WAITING TO TEST AGAIN LAST TEST PASSED
J						
K	☀	☀	●	☀	🔊	POSSIBLE TRANSDUCER/SENDER FAILURE SENDER NOT ANSWERING / TRANSDUCER READINGS ARE OFF SCALE (EITHER MAYBE DISCONNECTED)
L	⊗	●	⊗	⊗		PIPELINE PRESSURE IS BELOW 7.5 PSI
M	●	⊗	⊗	⊗		PUMP ON
N	☀	☀	☀	☀		AUTO LEARN NOT COMPLETED <u>UNIT CAN NOT DETECT LEAKS</u>

● OFF

● ON CONTINUOUSLY

⊗ MAY INDICATE OTHER CONDITIONS

☀ BLINK



(EQUAL ON & OFF 1 SEC)



FLASH
(QUICK)



FLASH EVERY 4 SECONDS)